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Pressure compensator container for hot water system - has
expansion pipe section inside pressure control chamber filled with
inert

gas which is compressed when pipe section expands

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Patent Family:

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DE 19504750	A1	19960822	DE 1004750	A	19950214	199639 B

Priority Applications (No Type Date): DE 1004750 A 19950214

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
DE 19504750	A1	8	F24D-003/10	

Abstract (Basic): DE 19504750 A

The pressure compensator container comprises an oval housing

(1) with flanges (2) at each end to connect into a hot water line. The inside of the housing has a central pipe section (6) of flexible material with the ends clamped into the connecting flanges. The pipe

section expands with the increasing water pressure as the water heats.

The trapped volume (5) in the housing is filled with an inert gas, eg.

nitrogen, which is compressed as the pipe section expands.

The compensator is strengthened by a central rod through the housing which carries spacers to limit the compression of the flexible

pipe section. An impeller mounted on the rod is rotated by the water

flow and generates a swirl effect to prevent build-up of limescale and dirt etc.

ADVANTAGE - Provides that no water is collected in the container over a long time.

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Derwent Class: Q74

International Patent Class (Main): F24D-003/10

International Patent Class (Additional): F24D-019/10

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